

## Claims

1. A liquid complete nutritional composition suitable for feeding cachectic patients, having an energy density of at least 1.45 kcal/ml (at least 6.06 kJ/ml), comprising:
  - a carbohydrate fraction in an amount of 17-27 g per 100 ml (0.68-1.08 kcal/ml);
  - a protein fraction in an amount of 7.8-12 g per 100 ml (0.31-0.48 kcal/ml); and
  - a lipid fraction;*characterised* in that at least 70 wt.% of the protein fraction is obtained by demineralising milk, and the protein fraction comprises between 25 and 37 wt.% of whey proteins.
2. A liquid composition according to claim 1, in which said demineralising is achieved by ultrafiltration.
3. A liquid complete nutritional composition suitable for feeding cachectic patients, having an energy density of at least 1.45 kcal/ml (at least 6.06 kJ/ml), comprising:
  - a carbohydrate fraction in an amount of 17-27 g per 100 ml (0.68-1.0 kcal/ml);
  - a protein fraction; and
  - a lipid fraction;*characterized* in that:
  - the carbohydrate fraction comprises
    - = 0-35 wt.% of sucrose;
    - = 15-45 wt.% of other non-reducing mono-, di- and/or trisaccharides;
    - = 5-50 wt.% of other mono- and disaccharides;
    - = 5-40 wt.% of other trisaccharides and higher saccharides.
4. The composition according to claim 3, wherein the non-reducing disaccharides comprise trehalose.
5. A liquid complete nutritional composition suitable for feeding cachectic patients, having an energy density of at least 1.45 kcal/ml (at least 6.06 kJ/ml), comprising:
  - a carbohydrate fraction in an amount of 17-27 g per 100 ml (0.68-1.08 kcal/ml);
  - a protein fraction in an amount of 7.8-12 g per 100 ml (0.31-0.48 kcal/ml); and
  - a lipid fraction;*characterised* in that at least 70 wt.% of the protein fraction is obtained by demineralising milk, and the protein fraction comprises less than 5 wt.% of free amino acids.

6. A liquid composition according to any one of claims 1-5, wherein the amount of digestible carbohydrates is 18-23.5 and preferably 18-22 g per 100 ml.
7. A liquid composition according to any one of claims 1-6, which comprises 0.5-6 g fibre per 100 ml.
8. A liquid composition according to any one of claims 1-7, wherein the protein fraction amounts to at least 8.5, preferably above 8.7 g per 100 ml.
9. A liquid composition according to any one of claims 1-8, in which the protein fraction contains at least 8.6 wt.% of lysine residues, at least 2.5 wt.% of methionine residues and at least 0.5 wt.% of cysteine residues.
10. The composition according to any one of claims 1-9, wherein the protein fraction essentially consists of intact proteins and comprises 60-90 wt.%, preferably 65-78 wt.% of caseins.
11. The composition according to any one of claims 1-10, wherein the lipid fraction amounts to 5.0-7.0 g per 100 ml (0.45-0.63 kcal/ml).
12. The composition according to any one of claims 1-11, having a viscosity of the liquid of below 50 mPa.s at a shear rate of  $100 \text{ s}^{-1}$  and a temperature of  $20^{\circ}\text{C}$ .
13. A powder that after reconstitution with water provides a composition according to any one of claims 1-12.
14. A packaged food product containing between 5 and 250 ml of the composition according to any of claims 1-13 in a unit package.
15. A packaged food product containing between 5 and 150 ml of a liquid food product having an energy density of at least 1.45 kcal/ml and comprising at least 7.6 g protein per 100 ml and comprising carbohydrates and fats and optionally vitamins, in a unit package.
16. A process for preparing a liquid product according to any one of claims 1-13, comprising preparing a liquid protein fraction and subsequently mixing with a carbohydrate fraction and a fat fraction, characterised by dissolving in an aqueous solution a dry demineralised milk product, optionally together with a part of other water-soluble components, adjusting the suspension obtained to a viscosity value of below 50 mPas (at  $100 \text{ s}^{-1}$ ) and then mixing an amount of this suspension with water or remaining ingredient, including the fat fraction, to arrive at the final composition.